AMENDMENTS TO THE CLAIMS

This Listing of the Claims will replace all prior versions, and listings of the claims in the application.

Listing of the Claims:

- 1.-124. (Canceled)
- 125. (Currently Amended) A pharmaceutical composition comprising a haptencarrier conjugate, said pharmaceutical composition comprising

at least one hapten which is nicotine or a nicotine derivative; and

at least one carrier which is a pseudomonas exotoxin,

and wherein said hapten and said carrier are linked by a branch selected from the group of chemical moieties identified by CJ reference number consisting of:

CJ 0	Q
CJ U	(CH ₂) _n Q
CJ 1.1	$(C112)_{11}Q$ CO_2Q
CJ 1.1 CJ 2	
	$OCO(CH_2)_nQ$
CJ 2.1	OCOCH=Q
CJ 2.2	OCOCH(O)CH ₂
CJ 2.3	$OCO(CH_2)_nCH(O)CH_2$
CJ 3	$CO(CH_2)_nCOQ$
CJ 3.1	$CO(CH_2)_nCNQ$
CJ 4	$OCO(CH_2)_nCOQ$
CJ 4.1	$OCO(CH_2)_nCNQ$
CJ 5	$CH_2OCO(CH_2)_nCOQ$
CJ 5.1	$CH_2OCO(CH_2)_nCNQ$
CJ 6	$CONH(CH_2)_nQ$
CJ 7	$Y(CH_2)_nQ$
CJ 7.1	$CH_2Y(CH_2)_nQ$
CJ 8	OCOCH(OH)CH ₂ Q
CJ 8.1	$OCO(CH_2)_nCH(OH)CH_2Q$
CJ 9	OCOC ₆ H ₅
CJ 10	Q'
	Q
	Y >
	N
	II II
	, wherein Q' is a modified
	protein; and
CJ 11	YCO(CH ₂) _n COQ[[,]]; and
CJ 11.1	$\underline{\text{CH}_2\text{YCO}(\text{CH}_2)_n\text{COQ}}$

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and wherein for each branch, n is independently an integer; Y is S, O, or NH; and Q is selected from the group consisting of:

- (i) —H;
- (ii) —OH;
- (iii) —CH₂;
- (iv) $-CH-CH_3$;

([[iv a]] \underline{v}) —OCH₃;

 $([[v]]\underline{vi})$ —COOH;

([[vi]]vii) a halogen;

([[vii]]<u>viii</u>) an activated ester or esters, such as 2-nitro-4-sulfophenyl ester and Noxysuccinimidyl ester;

([[viii]]ix) a group or groups reactive toward the carrier, such as a mixed anhydride, acyl halide, acyl azide, alkyl halide, N-maleimide, imino ester, isocyanate, and isothiocyanate;

($[[ix]]\underline{x}$) the carrier; and

([[x]]xi) another "branch" identified by its "CJ" reference number,

and wherein said hapten-carrier conjugate is capable of eliciting elicits nicotine-specific antibodies an antibody response against nicotine in a human.

- 126. (Previously Presented) The pharmaceutical composition_of claim 125, wherein n is from 3 to 20.
 - 127. (Canceled)
- 128. (Previously Presented) The pharmaceutical composition of claim 125, wherein greater than one hapten is coupled to the carrier.
 - 129. (Canceled)
 - 130. (Canceled)
- 131. (Previously Presented) The pharmaceutical composition of claim 125, further comprising a pharmaceutically acceptable excipient.
- 132. (Presently Amended) The pharmaceutical composition of claim 125, further comprising an adjuvant.

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- 133. (Previously Presented) The pharmaceutical composition of claim 132, wherein the adjuvant is alum or RIBI adjuvant.
- 134. (Previously Presented) The pharmaceutical composition of claim 133, wherein the adjuvant is alum.
- 135. (Previously Presented) The pharmaceutical composition of claim 134, wherein the alum is aluminum hydroxide or aluminum phosphate.
- 136. (Previously Presented) The pharmaceutical composition of claim 125, further comprising an auxiliary agent or supplementary active compound.
- 137. (Previously Presented) The pharmaceutical composition of claim 125 which is suitable for parenteral administration to a human.
- 138. (Previously Presented) The pharmaceutical composition of claim 125 which is suitable for oral, dermal or topical administration to a human.
 - 139. (Canceled)
 - 140. (Canceled)
 - 141. (Canceled)
- 142. (Currently Amended) The pharmaceutical composition of claim 125, further comprising a pharmaceutically acceptable <u>earrierexcipient</u>.